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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/902,576	07/12/2001	Masaru Kogure	32405W084	3624	
7590 07/28/2004			EXAMINER		
Smith, Gambrell & Russell, LLP			CATHEY II, PATRICK H		
Beveridge, De	Grandi, Weilacher & Yo				
Intellectual Property Group			ART UNIT	PAPER NUMBER	
1850 M Street, N.W. (Suite 800)			2613	(/	
Washington, DC 20036			DATE MAIL ED: 07/28/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	n No.	Applicant(s)				
		09/902,57	6	KOGURE ET AL.				
		Examiner		Art Unit				
		Patrick H.	•	2613				
 Period for	The MAILING DATE of this commun Reply	ication appears on the	cover sheet with the o	orrespondence address				
THE M - Extens after S - If the p - If NO p - Failure Any re	RTENED STATUTORY PERIOD F AILING DATE OF THIS COMMUN ions of time may be available under the provisions IX (6) MONTHS from the mailing date of this commercial for reply specified above is less than thirty (3 teriod for reply is specified above, the maximum stato reply within the set or extended period for reply ply received by the Office later than three months in patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no evenunication. s0) days, a reply within the statuatutory period will apply and will will, by statute, cause the appl	nt, however, may a reply be tin tory minimum of thirty (30) day I expire SIX (6) MONTHS from ication to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status								
1)□ F	Responsive to communication(s) file	ed on						
2a)□ 1	Γhis action is FINAL .	2b)⊠ This action is n	on-final.					
3) 🗌 💲	Since this application is in condition	for allowance except	for formal matters, pro	osecution as to the merits is				
C	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositio	n of Claims		·					
4)🛛 (Claim(s) <u>1-12</u> is/are pending in the a	application.						
4	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) 🗌 (Claim(s) is/are allowed.							
6)🛛 (☑ Claim(s) <u>1,2 and 4-9</u> is/are rejected.							
7)🛛 (☑ Claim(s) <u>3 and 10-12</u> is/are objected to.							
8) 🗌 (Claim(s) are subject to restri	ction and/or election re	equirement.					
Applicatio	on Papers							
9)[] T	he specification is objected to by th	e Examiner.						
• —	he drawing(s) filed on is/are		objected to by the	Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
F	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) 🗌 T	he oath or declaration is objected t	o by the Examiner. No	te the attached Office	Action or form PTO-152.				
Priority ur	nder 35 U.S.C. § 119							
12)⊠ A	acknowledgment is made of a claim ☐ All b) ☐ Some * c) ☐ None of:	for foreign priority und	der 35 U.S.C. § 119(a)-(d) or (f).				
•	1.⊠ Certified copies of the priority	documents have bee	n received.					
2	2.☐ Certified copies of the priority			ion No				
;	3. Copies of the certified copies							
	application from the Internation							
* Se	ee the attached detailed Office action	on for a list of the certi	fied copies not receive	ed.				
Attachment(•		4) 🔲 Jaton danii Suran	· (DTO 442)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) 🛛 Inform	ation Disclosure Statement(s) (PTO-1449 o No(s)/Mail Date <u>10</u> .		_	Patent Application (PTO-152)				

Art Unit: 2613

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim's 1, 4, 6, 8 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Saneyoshi et al. (US 5,410,346).

As for Claim 1, Saneyoshi et al. teaches that the optical system (10) for taking images is in the front view of the vehicle (Column 2, lines 46-47; see also figures 1 and 2). He also teaches a calculating method for the brightness data of the image (Column 9, lines 53-63). He then shows that if there is a fail occurring then a fail-safe measure, or a warning, would take place (Column 7, lines 33-39).

As for Claim 4, Saneyoshi et al. teaches that the maximum value is indicated (Column 29, line 64 to Column 30, line 4).

As for Claim 6, Saneyoshi et al. teaches that the edges are within the predetermined values (Column 12, lines 42-54).

As for Claim 8, Saneyoshi et al. teaches calculating the distance between the car and the object (Column 7, lines 52-62).

Art Unit: 2613

As for Claim 9, Saneyoshi et al. teaches the monitoring section is set on the upper section of the image where the vehicle ahead is located (Column 13, lines 37-45).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim's 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saneyoshi et al. in view of Yasui et al. (US 6,091,833).

Most of the limitations for this claim have been addressed above in claim

1. As for Claim 2, Saneyoshi et al. fails to teach that the data indicates a
horizontal distribution on the image, but Yasui et al. does (Column 10, lines 5565). Since Yasui's et al. system will allow for guide detection of lanes, it would
have been obvious for one of ordinary skill to have the data indicate a horizontal
distribution on the image.

Most of the limitations for this claim have been addressed above in claim's 1 and 6. As for Claim 7, Saneyoshi et al. fails to teach that the number of data is the number of edges, but Yasui et al. does (Column 21, lines 43-50). Since the data is the number of the edges in this case, it would have been obvious for one of ordinary skill to make the number of data the number of edges.

Art Unit: 2613

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saneyoshi et al. in view of Yasui et al. and further in view of Stam et al. (US 6,587,573).

Most of the limitations for this claim have been addressed above in claim's 1 and 2. As for Claim 5, Saneyoshi et al. fails to teach that the characteristic value included the variance on the image, but Stam et al. does (Column 47, lines 8-31). Since the variance provides critical information regarding the outside conditions of the road, it would be obvious for one of ordinary skill to include the value of the variance on the image.

Allowable Subject Matter

Claim's 3 and 10-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pruksch et al. (US 5,955,941) teaches a fail-safe method if lights are blinding the driver. Ishikawa et al. (US 6,549,124) teaches a method of detecting an approaching vehicle and giving off an alarm if the vehicle violates predetermined values. David (US 4,833,469) teaches a system that warns the

Art Unit: 2613

driver if there is an obstacle present. Akita (US 6,282,478) teaches fail-safe methods when vehicles or obstacles are in danger to the driver.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick H. Cathey II whose telephone number is (703) 305-4909. The examiner can normally be reached on M-F 7:30 to 5:00 (Every other friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on (703) 503-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patrick H. Cathey II Examiner Art Unit 2613

PHC II

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